1. Using an interval or intervals, describe all the x-values within or including a distance of the given values.

   No less than 2 units from the number 9.

   A. $(7, 11)$

   B. $[7, 11]$

   C. $(-\infty, 7) \cup (11, \infty)$

   D. $(-\infty, 7] \cup [11, \infty)$

   E. None of the above

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2. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

   $$4x + 5 \leq 5x - 8$$

   A. $[a, \infty)$, where $a \in [12, 14]$

   B. $[a, \infty)$, where $a \in [-16, -12]$

   C. $(-\infty, a]$, where $a \in [-15, -12]$

   D. $(-\infty, a]$, where $a \in [6, 15]$

   E. None of the above.

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3. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

   $$-4 - 6x < \frac{-46x + 8}{8} \leq -7 - 8x$$

   A. $(-\infty, a) \cup [b, \infty)$, where $a \in [-25.5, -17.25]$ and $b \in [-5.25, -1.5]$

   B. $[a, b)$, where $a \in [-21, -15.75]$ and $b \in [-4.5, 0.75]$

   C. $(-\infty, a] \cup (b, \infty)$, where $a \in [-21, -18]$ and $b \in [-6, -3]$

   D. $(a, b]$, where $a \in [-21.75, -16.5]$ and $b \in [-6.75, -0.75]$

E. None of the above.

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4. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-6 + 8x \leq \frac{26x - 9}{3} < 4 + 4x$$

A. $(-\infty, a) \cup [b, \infty)$, where $a \in [-9.75, -1.5]$ and $b \in [-0.75, 5.25]$

B. $(a, b]$, where $a \in [-5.25, -0.75]$ and $b \in [-0.75, 9.75]$

C. $[a, b)$, where $a \in [-5.25, -2.25]$ and $b \in [0.22, 1.72]$

D. $(-\infty, a] \cup (b, \infty)$, where $a \in [-7.5, -3]$ and $b \in [1.05, 1.8]$

E. None of the above.

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5. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$\frac{9}{8} + \frac{4}{7}x \leq \frac{7}{3}x - \frac{3}{4}$$

A. $[a, \infty)$, where $a \in [0, 2.25]$

B. $[a, \infty)$, where $a \in [-4.5, 0]$

C. $(-\infty, a]$, where $a \in [-4.5, 0.75]$

D. $(-\infty, a]$, where $a \in [0.75, 2.25]$

E. None of the above.

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6. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-7 + 3x > 5x \text{ or } 7 + 5x < 8x$$

A. $(-\infty, a] \cup [b, \infty)$, where $a \in [-4.65, -2.4]$ and $b \in [1.95, 2.48]$

B. $(-\infty, a) \cup (b, \infty)$, where $a \in [-3.96, -3.48]$ and $b \in [1.74, 3.01]$

C. $(-\infty, a) \cup (b, \infty)$, where $a \in [-2.75, -2.24]$ and $b \in [3.05, 4.35]$

D. $(-\infty, a] \cup [b, \infty)$, where $a \in [-3, -1.12]$ and $b \in [3.15, 5.77]$

E. $(-\infty, \infty)$

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7. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$\frac{-8}{7} - \frac{5}{8}x \leq \frac{5}{6}x + \frac{8}{9}$$

A. $(-\infty, a]$, where $a \in [0, 4.5]$

B. $[a, \infty)$, where $a \in [0.75, 2.25]$

C. $[a, \infty)$, where $a \in [-2.25, 0.75]$

D. $(-\infty, a]$, where $a \in [-2.25, 0.75]$

E. None of the above.

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8. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-7 - 3x > 4x \text{ or } 6 + 9x < 10x$$

A. $(-\infty, a) \cup (b, \infty)$, where $a \in [-8.25, -4.5]$ and $b \in [-0.75, 3.75]$

B. $(-\infty, a) \cup (b, \infty)$, where $a \in [-3.75, 0]$ and $b \in [1.5, 8.25]$

C. $(-\infty, a] \cup [b, \infty)$, where $a \in [-9.75, -3]$ and $b \in [0, 4.5]$

D. $(-\infty, a] \cup [b, \infty)$, where $a \in [-5.25, 2.25]$ and $b \in [3.75, 9]$

E. $(-\infty, \infty)$

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9. Using an interval or intervals, describe all the x-values within or including a distance of the given values.

No more than 5 units from the number 4.

A. $[-1, 9]$

B. $(-1, 9)$

C. $(-\infty, -1) \cup (9, \infty)$

D. $(-\infty, -1] \cup [9, \infty)$

E. None of the above

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10. Solve the linear inequality below. Then, choose the constant and interval combination that describes the solution set.

$$-8x - 3 \leq 5x + 4$$

A. $[a, \infty)$, where $a \in [0.06, 1.26]$

B. $[a, \infty)$, where $a \in [-1.23, -0.26]$

C. $(-\infty, a]$, where $a \in [-1.54, 0.46]$

D. $(-\infty, a]$, where $a \in [-0.46, 5.54]$

E. None of the above.
